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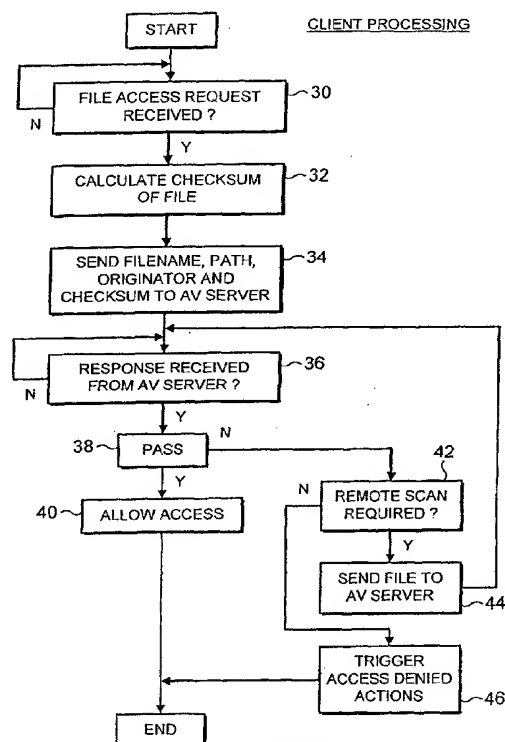
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(54) **Centrally managed virus scanning system**

(57) A malware detecting system is described in which a client computer 8 sends a file access clearance request to an assessment computer 24 to determine whether or not access is permitted to that file. In this way, the different client computers on a network 2 may share their scan results and centralised control may be provided over access permissions to individual files or groups of files.



**FIG. 2**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 02 25 3235

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 6 195 587 B1 (HRUSKA JAN ET AL) 27 February 2001 (2001-02-27)  * abstract * * column 1, line 1-9; figure 3 * * column 2, line 15-65; figures 1,2 * * column 3, line 5-25,40-67 * * column 5, line 1-60 * * column 4 *	1-13, 16-24, 28-41, 44-52, 55-68, 71-79,82	G06F1/00 G06F21/00
X	US 5 960 170 A (LAU STEVEN YUEN-LAM ET AL) 28 September 1999 (1999-09-28)  * abstract * * column 1-10; figures 1-8 * * column 11, line 1-55 * * column 12-27 *	1,7,17, 29,35, 45,56, 62,72	
X	EP 1 111 507 A (SECURE OYJ F) 27 June 2001 (2001-06-27)  * the whole document *	1,7,17, 29,35, 45,56, 62,72	G06F
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 26 January 2004	Examiner Nazzaro, A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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# EUROPEAN SEARCH REPORT

Application Number  
EP 02 25 3235

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	<p>MARMELSTEIN R E ET AL: "A distributed architecture for an adaptive computer virus immune system"</p> <p>SYSTEMS, MAN, AND CYBERNETICS, 1998.. 1998. IEEE INTERNATIONAL CONFERENCE ON SAN DIEGO, CA, USA 11-14 OCT. 1998, NEW YORK, NY, USA, IEEE, US, 11 October 1998 (1998-10-11), pages 3838-3843, XP010310923</p> <p>ISBN: 0-7803-4778-1</p> <p>* abstract; figure 1 *</p> <p>* page 3841 *</p> <p>* page 3842 *</p> <p>-----</p>	<p>14,15, 25,26, 42,43, 53,54,, 69,70, 80,81</p>	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
MUNICH		26 January 2004	Nazzaro, A
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 (03.02.02) (P04C01)



European Patent  
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Application Number

EP 02 25 3235

#### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

#### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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LACK OF UNITY OF INVENTION  
SHEET B

Application Number  
EP 02 25 3235

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-13, 16-24, 28-41, 44-52, 55-68, 71-79, 82

Computer program, method and apparatus for detecting malware, comprising:  
detecting logic, file access clearance request generating and transmitting logic, file access clearance receiving logic at an assessment computer, file access clearance response generating and transmitting logic, file access clearance response receiving logic and file access permitting logic if file access clearance response indicates said file does not contain malware.

2. Claims: 14-15, 25-26, 42-43, 53-54, 69-70, 80-81

Computer program method and apparatus for detecting malware comprising detecting logic, file access clearance request generating and transmitting logic, file access clearance receiving logic at an assessment computer, file access clearance response generating and transmitting logic, file access clearance response receiving logic and file access permitting logic if file access clearance response indicates said file does not contain malware.  
The assessment computer is operable in a higher level security mode serving to deny access to greater range of computer files.  
The change from lower to higher level security mode is triggered from a remote computer.

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 25 3235

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-01-2004

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82